

Notice of Allowability	Application No.	Applicant(s)
	10/730,362	POPOV ET AL.
	Examiner Tu Ba Hoang	Art Unit 3742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed 07/08/05.
2. The allowed claim(s) is/are 1,2,4-25,27-47 and 49-51.
3. The drawings filed on 08 July 2005 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 07/08/05
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.


Tu Hoang
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Linda K. Russell on August 22, 2005.

The application has been amended as follows:

In claim 1, at lines 9-11: replace the phrase "greater than about 0 degrees from a line that is perpendicular in the horizontal plane to the front face of said panel" with the phrase - -less than 90 degrees relative to the plane of said front portion of said panel - -.

In claim 4, at lines 1-6, delete the entire phrase "at least one of.....portion" and insert thereby - - said angle is about 45 degrees - -.

In claim 24, at line 3: delete "in the range of about 0 degrees to about" and insert thereby - - less than - -;

and at line 4: replace "said front face" with - - a front face - -.

In claim 25, at lines 13-15: replace the phrase "greater than about 0 degrees from a line that is perpendicular in the horizontal plane to the front face of said panel" with the phrase - - less than 90 degrees relative to the plane of said front portion of said panel - -.

In claim 47, at line 4: after the word "comprises", insert - - a front portion, a first and second side portions facing away from said front portion, and - -;

and at line 14 (last line): after "opening", insert - - wherein at least one of said opening is located in at least one of said first and second side portions at an angle that is less than 90 degrees relative to the plane of said front portion of said panel- -.

In claim 50, at lines 2-3: delete the entire phrase ", and said method further comprises a method for increasing spatial coverage of said chemical energy" and insert thereby - -in which a spatial coverage of said chemical energy is increased- -.

The following is an examiner's statement of reasons for allowance: allowance of claims 1-2, 4-25, 27-47, and 49-51 is indicated because none of the prior art of record shows or fairly suggest a furnace having a panel that is positioned at least partially into the furnace side wall, wherein the panel has at least a side portion positioned at an angle relative to its front portion and faced away from the front portion, in which at least an opening is located in the side portion in the manner recited in claims 1, 25, and 47.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Ba Hoang whose telephone number is (571) 272-4780. The examiner can normally be reached on Mon-fri from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tu Ba Hoang
Primary Examiner
Art Unit 3742

August 22, 2005